

NAD and NADO tanks

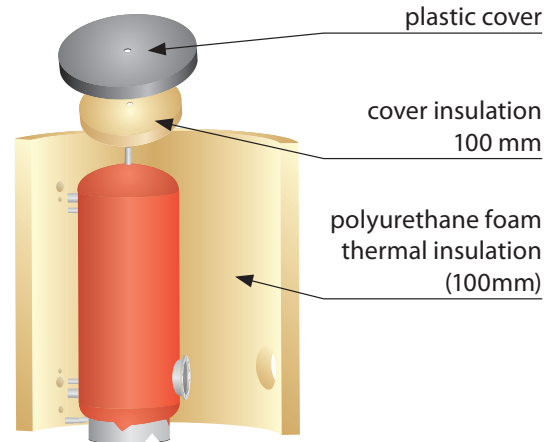
The idea of accumulation tanks using is storing of heat excess coming from different heat sources e.g solid fuel boilers, gas heaters, fireplaces stoves with exchangers, heating pump or solar system. The energy coming from combustion process is accumulated by heating factor (usually water) which enables for its further using. Combination with accumulation tanks gives an opportunity of right energy exploring and it's lowering even up to 35%.

The aim of accumulation tank is to store heat for further using. Water heated in the boiler flows through the accumulation tank and in the same time charges it. Accumulation lasts up to the moment of equalising both boiler's and tank's temperature.

Tank's construction

NAD, NADO 500,750,1000 accumulation tanks in cylinder shape are made for vertical montage. They are made of steel sheet.

Accumulation tanks are equipped with polyurethane foam thermal insulation at 100mm thickness (there are holes for branch pieces assembled in the tank) and with plastic cover. Great thermal insulation allow to keep warmth for a very long period of time. Insulation is provided in separate packing.



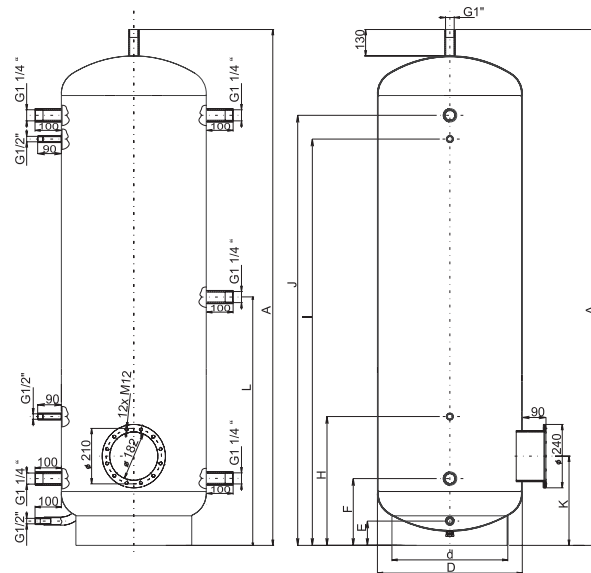
NAD 500 ,750 ,1000 /1

■ possibility of electric heater TPK type connecting

■ weight:

- NAD 500/1 - 116 kg,
- NAD 750/1 - 166 kg,
- NAD 1000/1 - 199 kg

	500	750	1000
	600	750	850
A	1990	2020	2053
E	90	90	90
F	260	272	287
H	494	506	521
I	1545	1557	1572
J	1635	1647	1662
K	344	356	371
L	948	960	975



storage tank max pressure	0,6 MPa
max water's temperature in the storage tank	90°C

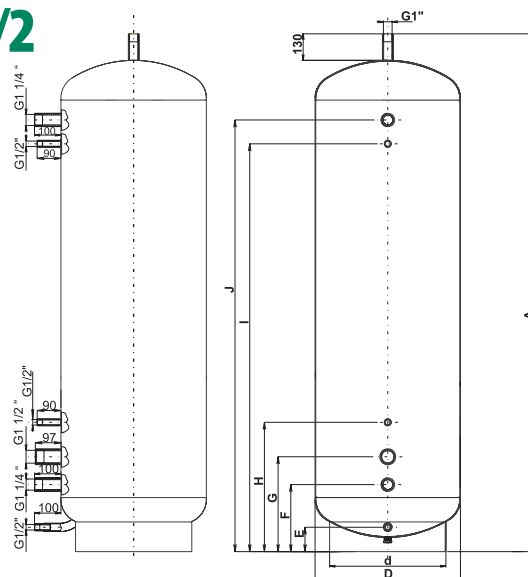
NAD 500, 750, 1000 /2

■ possibility of electric heater connecting TJ type

■ weight:

- NAD 500/2 - 106 kg,
- NAD 750/2 - 157 kg,
- NAD 1000/2 - 190 kg

	500	750	1000
D	600	750	850
A	1990	2020	2053
E	90	90	90
F	260	272	287
G	364	376	391
H	494	506	521
I	1545	1557	1572
J	1635	1647	1662



storage tank max pressure	0,6 MPa
max water's temperature in the storage tank	90°C

An example of NAD/5 accumulation tank

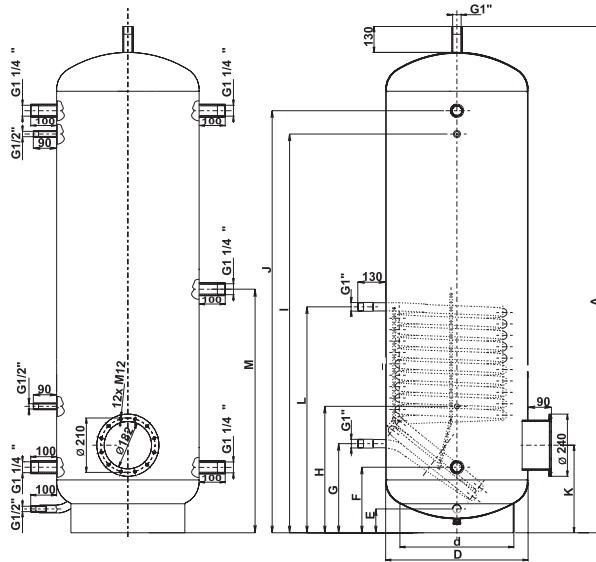


NAD 500, 750, 1000 /4

- possibility of electric heater connecting TPK type
- there is an exchanger in the container which can cooperate with another sources of heat (solar, pump, gas or oil boiler)
- weight:
 - NAD 500/4 - 147 kg,
 - NAD 750/4 - 197 kg,
 - NAD 1000/4 - 230 kg

max pressure in the storage tank	0,6 MPa
max pressure in the exchanger	1 MPa

max water's temperature in the storage tank	90°C
max water's temperature in the exchanger	110°C



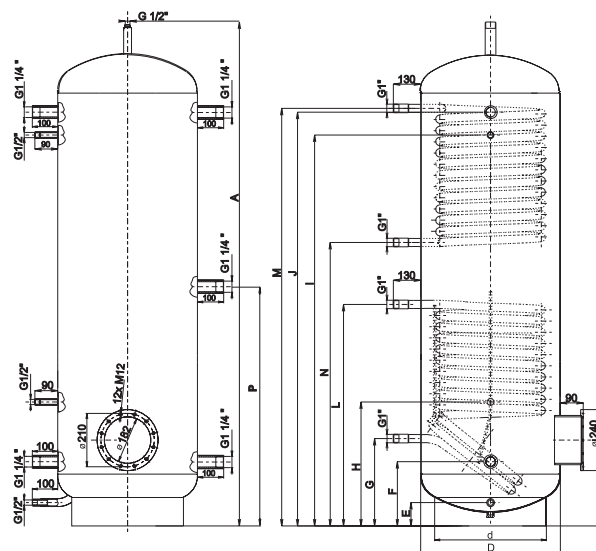
	500	750	1000
	600	750	850
A	1990	2020	2053
E	90	90	90
F	260	272	287
G	350	362	377
H	494	506	521
I	1545	1557	1572
J	1635	1647	1662
K	344	356	371
L	878	890	905
M	948	960	975

NAD 500, 750, 1000 /5

- possibility of electric heater connecting TPK type
- there are two exchangers in the container which can cooperate another sources of heat (solar, pump, gas or oil boiler)
- weight:
 - NAD 500/5 - 178 kg,
 - NAD 750/5 - 228 kg,
 - NAD 1000/5 - 261 kg

max pressure in the storage tank	0,6 MPa
max pressure in the exchanger	1 MPa

max water's temperature in the storage tank	90°C
max water's temperature in the exchanger	110°C



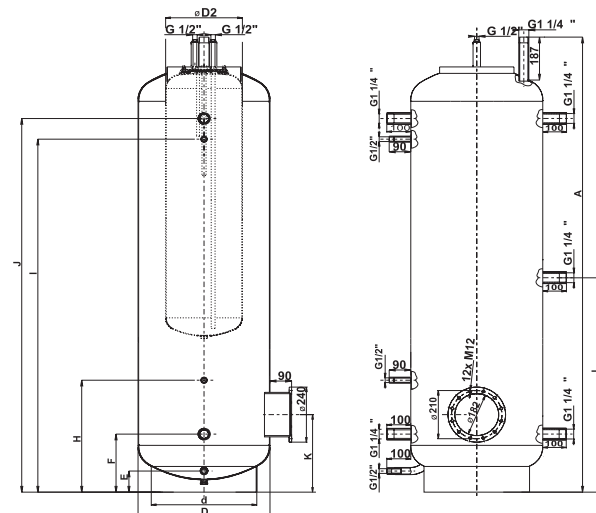
	500	750	1000
	600	750	850
A	1990	2020	2053
E	90	90	90
F	260	272	287
G	350	362	377
H	494	506	521
I	1545	1557	1572
J	1635	1647	1662
K	344	356	371
L	875	887	902
M	1650	1662	1677
N	1119	1131	1146
P	948	960	975

NADO 500, 750, 1000 /1

- possibility of electric heater connecting TPK type
- there is HUW container at 100 up to 200 l capacity
- weight:
 - NADO 500/100/1 - 142 kg,
 - NADO 750/100/1 - 192 kg,
 - NADO 1000/100/1 - 225 kg
 - NADO 500/160/1 - 148 kg,
 - NADO 750/160/1 - 198 kg,
 - NADO 1000/160/1 - 231 kg
 - NADO 500/200/1 - 157 kg,
 - NADO 750/200/1 - 207 kg,
 - NADO 1000/200/1 - 240 kg

max pressure in the storage tank	0,3 MPa
max pressure in the exchanger	0,6 MPa

max water's temperature in the storage tank	90°C
max water's temperature in the HUW container	90°C



	500	750	1000
	600	750	850
A	1990	2020	2053
E	90	90	90
F	260	272	287
H	494	506	521
I	1545	1557	1572
J	1635	1647	1662
K	344	356	371
L	948	960	975

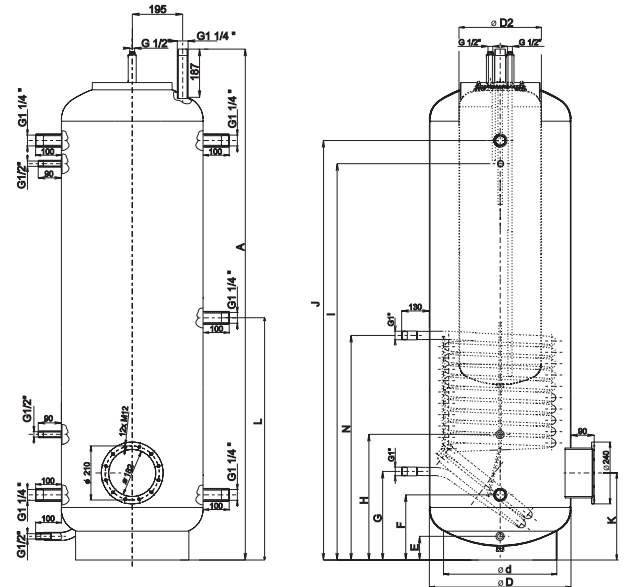
TYPE	Ø D2=320 mm HUW container's capacity (L)	Ø D2=440 mm HUW container's capacity (L)	Ø D2=500 mm HUW container's capacity (L)
NADO 500/1	100	160	200
NADO 750/1	100	160	200
NADO 1000/1	100	160	200

NADO 500, 750, 1000 /2

- possibility of electric heater connecting TPK type
- there is an exchanger in the container which can cooperate with another sources of heat (solar, pump, gas or oil boiler)
- there is HUW container at 100 up to 140 l capacity
- weight:
 - NADO 500/100/2 - 173 kg,
 - NADO 750/100/2 - 223 kg,
 - NADO 1000/100/2 - 256 kg
- NADO 500/140/2 - 179 kg,
- NADO 750/140/2 - 229 kg,
- NADO 1000/140/2 - 262 kg

	500	750	1000
	600	750	850
A	1990	2020	2053
E	90	90	90
F	260	272	287
G	350	362	377
H	494	506	521
I	1545	1557	1572
J	1635	1647	1662
K	344	356	371
L	948	960	975
M	875	887	902

TYPE	Ø D2=320mm HUW container's capacity (L)	Ø D2=500mm HUW container's capacity (L)
NADO 500/2	100	140
NADO 750/2	100	140
NADO 1000/2	100	140



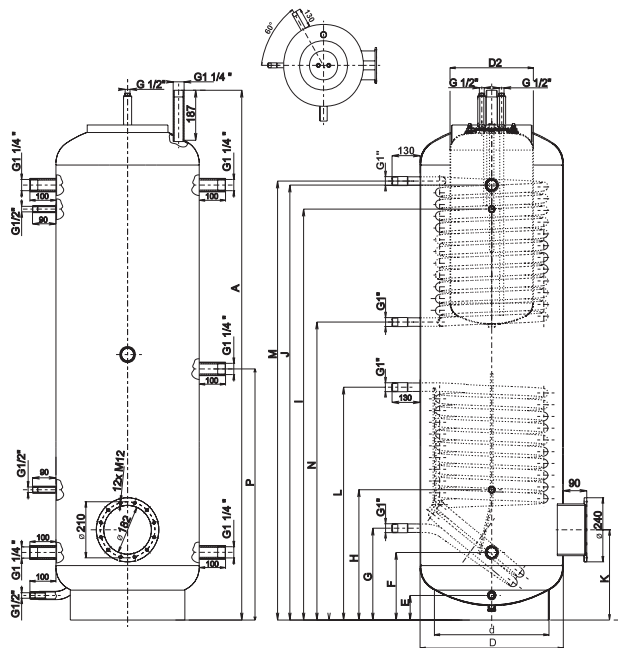
max pressure in the storage tank	0,3 MPa	max water's temperature in the storage tank	90°C
max pressure in the exchanger	1 MPa	max water's temperature in the exchanger	110°C
max pressure in the HUW container	0,6 MPa	max water's temperature in the HUW container	90°C

NADO 500, 750, 1000 /3

- possibility of electric heater connecting TPK type
- there are two exchangers in the container which can cooperate another sources of heat (solar, pump, gas or oil boiler)
- inside there are enamelled HUW containers at 60 up to 100 l capacity
- weight:
 - NADO 500/100/3 - 204 kg,
 - NADO 750/100/3 - 254 kg,
 - NADO 1000/100/3 - 287 kg

Type	Ø D2=320 mm HUW container's capacity (L)	Ø D2=500 mm HUW container's capacity (L)
NADO 500/3	60	100
NADO 750/3	60	100
NADO 1000/3	60	100

	500	750	1000
	600	750	850
A	1990	2020	2053
E	90	90	90
F	260	272	287
G	350	362	377
H	494	506	521
I	1545	1557	1572
J	1635	1647	1662
K	344	356	371
L	875	887	902
M	1647	1659	1674
N	1119	1131	1146
P	943	955	970



max pressure in the storage tank	0,3 MPa	max water's temperature in the storage tank	90°C
max pressure in the exchanger	1 MPa	max water's temperature in the exchanger	110°C
max pressure in the HUW container	0,6 MPa	max water's temperature in the HUW container	90°C

An example of NADO/2 accumulation tank

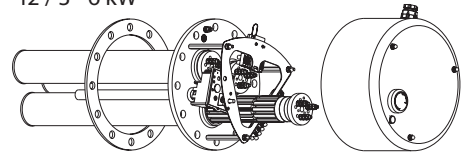


ACCESSORIES Heating flange

Type	Output	Connection voltage	Electric heater (l)	Electric protection category	weight
	kW		mm		kg
TPK 168-8/2,2 kW	2,2	1 PE-N AC 230 V / 50 Hz	440	IP 44	5
TPK 210-12/2,2 kW	2,2	1 PE-N AC 230 V / 50 Hz	450	IP 44	9
TPK 210-12/3-6 kW	3-4,0-6	3 PE-N AC 230 V / 50 Hz	450	IP 44	15

Heater assembled in sleeve:

- TPK 168 - 8 / 2,2 kW
- TPK 210 - 12 / 2,2 kW
- TPK 210 - 12 / 3 - 6 kW

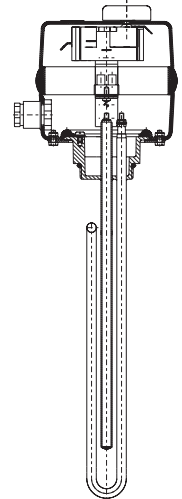


ACCESSORIES screw-mounted electrical heating unit

Typ	output	Connection voltage	heating time from 10°C up to 60°C (cca 150 l)	heating time from 35°C up to 60°C (cca 150 l)	electric protection category	setting range	electric heater's length (l)	weight
	kW		godz.	godz.		C	mm	kg
TJ 6/4"-2	2,00	1 PE-N AC 230 V / 50 Hz	4,5	2,2	IP 45	0-75	350	1,6
TJ 6/4"-2,5	2,50	1 PE-N AC 230 V / 50 Hz	4,0	2,0	IP 45	0-75	360	1,8
TJ 6/4"-3,3	3,30	3 PE-N AC 400 V / 50 Hz	2,7	1,5	IP 45	0-75	330	2
TJ 6/4"-3,75	3,75	3 PE-N AC 400 V / 50 Hz	2,3	1,2	IP 45	0-75	350	2,1
TJ 6/4"-4,5	4,50	3 PE-N AC 400 V / 50 Hz	2,0	1,0	IP 45	0-75	400	2,2
TJ 6/4"-6	6,00	3 PE-N AC 400 V / 50 Hz	1,5	0,7	IP 45	0-75	520	2,4
TJ 6/4"-7,5	7,50	3 PE-N AC 400 V / 50 Hz	1,3	0,6	IP 45	0-75	580	2,4
TJ 6/4"-9	9,00	3 PE-N AC 400 V / 50 Hz	1,0	0,5	IP 45	0-75	610	2,6

Rifled electric heater:

- TJ 6/4"-2
- TJ 6/4"-2,5
- TJ 6/4"-3,3
- TJ 6/4"-3,75
- TJ 6/4"-4,5
- TJ 6/4"-6
- TJ 6/4"-7,5
- TJ 6/4"-9



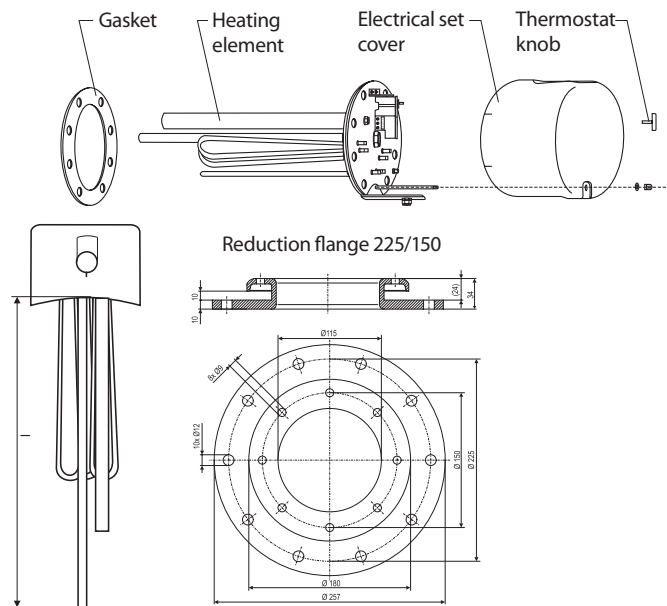
ACCESSORIES Electric heater R, SE type

For the OKC 300-1000 NTR, NTRR / 1 MPa,
OKCE 400-1000 S / 1MPa heaters

Type	output	Connection voltage	Electric protection category	electric heater's length (l)	Weight
	kW			mm	kg
REU 18 - 2,5	2,5	1 PE-N AC 230 V / 50 Hz	IP 24	450	3
RDU 18 - 2,5	2,5	3 PE-N AC 400 V / 50 Hz	IP 24	450	3,3
RDU 18 - 3	3	3 PE-N AC 400 V / 50 Hz	IP 24	450	3,4
RDU 18 - 3,8	3,8	3 PE-N AC 400 V / 50 Hz	IP 24	450	3,5
RDU 18 - 5	5	3 PE-N AC 400 V / 50 Hz	IP 24	450	3,5
RDU 18 - 6	6	3 PE-N AC 400 V / 50 Hz	IP 24	450	3,5
RDW 18 - 7,5	7,5	3 PE-N AC 400 V / 50 Hz	IP 24	450	3,7
RDW 18 - 10	10	3 PE-N AC 400 V / 50 Hz	IP 24	450	4
RSW 18 - 12	12	3 PE-N AC 400 V / 50 Hz	IP 24	530	4
RSW 18 - 15	15	3 PE-N AC 400 V / 50 Hz	IP 24	630	4,2
SE 377*	8,0/11/16	3 PE-N AC 400 V / 50 Hz	IP 24	610	8
SE 378*	9,5/14/19	3 PE-N AC 400 V / 50 Hz	IP 24	610	11,5

* for 750 and 1000 l heaters

REU, RDU, RDW, RSW types can be connected with 750 and 1000l heater with the reduction flange.



Volume	flange's size*	heating time from 10 up to 60°C [h]								
		8	6	5	4	3	2,5	2	1,5	1
300	flansza ø150	RDU 18 - 2,5	RDU 18 - 3	RDU 18 - 3,8	RDU 18 - 5	RDU 18 - 6	RDW 18 - 7,5	RDW 18 - 10	RSW 18 - 12	RSW 18 - 15
	tuleja 6/4"	-	-	TJ 6/4" - 2	TJ 6/4" - 2,5	TJ 6/4" - 3,3	TJ 6/4" - 3,75	TJ 6/4" - 4,5	TJ 6/4" - 6	TJ 6/4" - 7,5
400	flansza ø150	RDU 18 - 3	RDU 18 - 3,8	RDU 18 - 5	RDU 18 - 6	RDW 18 - 7,5	RDW 18 - 10	RSW 18 - 12	RSW 18 - 15	-
	tuleja 6/4"	-	TJ 6/4" - 2	TJ 6/4" - 2,5	TJ 6/4" - 3,3	TJ 6/4" - 3,75	TJ 6/4" - 4,5	TJ 6/4" - 6	TJ 6/4" - 7,5	TJ 6/4" - 9
500	flansza ø150	RDU 18 - 3,8	RDU 18 - 5	RDU 18 - 6	RDW 18 - 7,5	RDW 18 - 10	RSW 18 - 12	RSW 18 - 15	-	-
	tuleja 6/4"	TJ 6/4" - 2	TJ 6/4" - 2,5	TJ 6/4" - 3,3	TJ 6/4" - 3,75	TJ 6/4" - 4,5	TJ 6/4" - 6	TJ 6/4" - 7,5	TJ 6/4" - 9	-
750	flansza ø150	RDU 18 - 6	RDW 18 - 7,5	RDW 18 - 10	RSW 18 - 12	RSW 18 - 15	-	-	-	-
	flansza ø225	-	SE 377 - 8	SE 378 - 9,5	SE 377 - 11	SE 378 - 14	SE 377 - 16	SE 378 - 19	-	-
1000	flansza ø150	RDW 18 - 7,5	RDW 18 - 10	RSW 18 - 12	RSW 18 - 15	-	-	-	-	-
	flansza ø225	SE 377 - 8	SE 378 - 9,5	SE 377 - 11	SE 378 - 14	SE 377 - 16	SE 378 - 19	-	-	-
	tuleja 6/4"	TJ 6/4" - 3,75	-	TJ 6/4" - 6	TJ 6/4" - 7,5	TJ 6/4" - 9	-	-	-	-

* diameter of the hole's placing in the flange

Heating time for TJ type heaters is counted according to ½ heater's capacity